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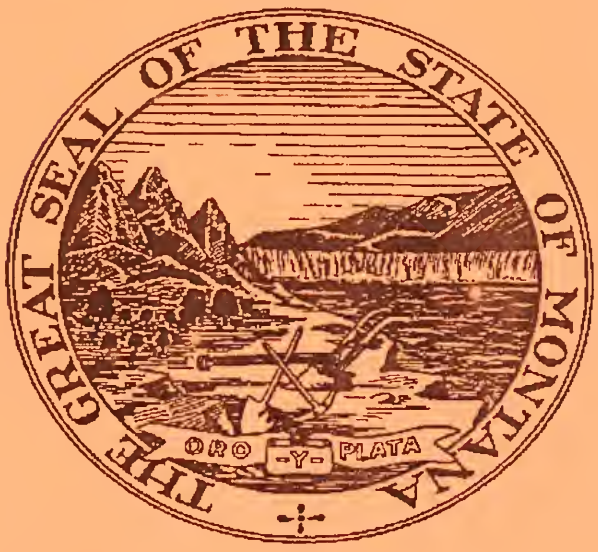
Montana Commercial

Feed / Fertilizer Report



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Ralph Peck, Director
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Volume 49, 2002

License & Registration Numbers

Feed Program

Issued as of	7/99	8/00	7/01	7/02	8/03
Feed Licenses	568	667	656	625	621
Feed Registrations					
- Companies	347	137	123	135	149
- Pet / Specialty Pet Registrations	3126	3100	2700	2989	3512
- Other Commercial Feeds	3322	0	0	0	0

Fertilizer Program

Issued as of	8/98	7/99	8/00	7/01	7/02	7/03
Fertilizer Licenses	272	264	251	234	230	232
Fertilizer Registrations						
- Companies	189	181	197	172	147	182
- Specialty Registrations	1008	999	845	738	1123	1155
- Commercial Fertilizers	327	355	392	384	357	359
- Soil Amendments	106	126	132	88	173	157

Feed Sampling History

Year	Samples Taken	Out of Tolerance	% Out of Tolerance
1982	332	82	24.7
1983	354	72	20.3
1984	266	64	24.1
1985	406	106	26.1
1986	290	50	17.2
1987	265	60	22.6
1988	280	57	20.4
1989	293	50	17.1
1990	310	54	17.4
1991	241	43	17.8
1992	335	76	22.7
1993	272	71	26.1
1994	312	89	28.5
1995	237	38	16.0
1996	235	77	32.8
1997	264	99	37.5
1998	296	125	42.2
1999	286	88	30.8
2000	266	71	26.7
2001	289	90	31.1
2002	258	87	33.7

2002 Feed Analysis Breakdown

Nutrient	Analyzed	Out of Tolerance	% Out of Tolerance
Protein	233	23	9.9
NPN	16	0	0
Fiber	5	0	0
Fat	12	0	0
Moisture	37	0	0
Calcium	193	19	9.8
Phosphorus	187	10	5.3
Salt	92	13	14.1
Vitamin A	92	13	14.1
Magnesium	21	4	19
Potassium	25	3	12
Zinc	42	3	7.1
Iron	8	0	0
Selenium	76	3	3.9
Copper	70	6	8.6
Manganese	8	1	12.5
Sodium	3	1	33.3
Lysine	55	0	0
Methionine	44	0	0
Amprolium	7	0	0
Chlortetracycline	15	1	6.7
Lasalocid	8	1	12.5
Oxtetracycline	2	0	0
Monensin	10	0	0
Sulfamethazine	4	1	25
Total	1265	102	8.1

MONTANA COMMERCIAL FEED REPORTED FOR 2002

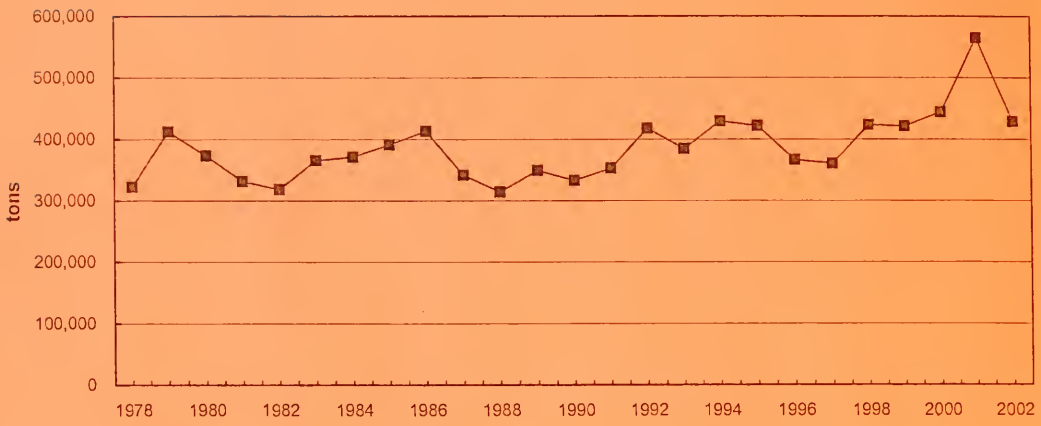
FORMULA FEEDS		NO. OF TONS
Broiler Feeds	Complete	420
	Supplement	22
Turkey Feeds	Complete	1,147
	Supplement	1,148
Starter / Grower	Complete	728
	Supplement	992
Layer / Breeder	Complete	3,103
(Egg-type)	Supplement	28
Beef Feeds	Complete	83,988
	Supplement	113,023
Dairy Feeds	Complete	17,869
	Supplement	7,261
Swine Feeds	Complete	2,488
	Supplement	2,711
Sheep Feeds	Complete	1,521
	Supplement	1,514
Horse Feeds	Complete	7,643
	Supplement	1,882
Mineral Feeds	Complete	3,094
	Supplement	7,871
Rabbit Feeds		344
Mineralized Salt		3,037
Miscellaneous		10,827
Formula Feeds Total		**272,661**

FEED INGREDIENTS	NO. OF TONS
Alfalfa Products	3,943
Animal Products	0
Barley Products	9,077
Beet Products	14,886
Brewer Products	736
Canola Products	6,301
Cottonseed Products	0
Drug Products	229
Fats & Oils	701
Linseed Products	0
Maize Products	32,946
Marine Products	75
Meat Products	50
Milk Products	99
Mineral Products	18,155
Molasses	11,378
Oat Products	1,601
Probiotic/Yeast	66
Safflower Products	4,890
Soybean Products	12,815
Sunflower Products	1,306
Urea	49
Vitamin Products	498
Wheat Products	33,581
Misc. Ingredients	2,596
Feed Ingredients Total	**155,978**

FDTNBK2002

Total Commercial Feed: 428,639 tons

Feed Tonnage History



Year	Tonnage
1978	322,452
1979	412,113
1980	373,463
1981	331,625
1982	318,312
1983	365,620
1984	371,317
1985	391,558
1986	413,452
1987	341,579
1988	314,336
1989	349,280
1990	332,997
1991	352,762
1992	418,090
1993	384,607
1994	429,600
1995	421,846
1996	366,756
1997	360,971
1998	423,573
1999	421,607
2000	444,344
2001	565,070
2002	**428,639**

FDHTON

Fertilizer Sampling & Analysis History

Year	# of Samples Taken	# of Samples Deficient	% Samples Deficient
1980	506	27	5.3
1981	428	24	5.6
1982	607	41	6.8
1983	558	50	9.0
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3
1988	228	18	7.9
1989	128	17	13.3
1990	154	31	20.1
1991	142	18	12.7
1992	107	21	19.6
1993	89	18	20.2
1994	172	21	12.2
1995	216	31	14.4
1996	208	23	11.1
1997	124	18	14.5
1998	172	27	15.7
1999	215	31	14.4
2000	215	37	17.2
2001	222	26	11.7
2002	220	26	11.8

2002 Fertilizer Sampling & Analysis Breakdown

Nutrient	Number Analyzed	Number Deficient	Percent Deficient
Nitrogen	182	7	3.8
Phosphate	127	5	3.9
Potash	99	13	13.1
Sulfur	49	3	6.1
Iron	21	1	4.8
Zinc	18	1	5.6
Total	496	30	6.0

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MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
Reported by Montana Agricultural Statistic Districts

JANUARY - JUNE 2002

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	43	1819	1266	102	7342	655	11,226
Ammonium Nitrate	1067	5145	5119	1747	8025	391	0	21,494
Ammonium Sulfate	1614	827	3329	389	1205	3976	330	11,669
Urea	3759	3701	38356	17851	7808	37265	4153	112,894
Ammonium Thiosulfate	0	87	283	15	1	469	0	854
Nitrogen Sols. 32%	52	626	175	779	260	0	0	1,891
Nitrogen Sols. 28%	0	449	2659	458	93	2892	0	6,551
Phosphorus Material	0	0	327	1842	46	123	0	2,338
Potash Material	1818	1847	7775	2017	2157	2678	608	18,900
Sulfur	82	122	118	468	1531	27	94	2,443
DAP	167	223	2890	155	861	5487	1281	11,063
MAP	2333	4908	27445	5400	5317	23636	3549	72,587
APS	1336	3699	1984	2152	779	446	524	10,920
10-34-0	0	84	608	59	34	720	6	1,511
OTHER BLENDS	2	0	990	569	4	13	2	1,580
MICRONUTRIENTS	46	46	1	27	90	112	30	352
GYPSUM/LIME	491	2	0	2	2	2	12	511
COMPOST	2982	672	0	0	0	0	0	3,654
TOTALS	15,749	22,481	93,876	35,193	28,315	85,579	11,243	292,437

JULY - DECEMBER 2002

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	103	5675	1470	146	3495	484	11,372
Ammonium Nitrate	158	1325	232	333	2879	0	0	4,927
Ammonium Sulfate	349	125	1159	966	874	1717	8	5,199
Urea	445	547	23098	19201	9095	25187	1109	78,681
Ammonium Thiosulfate	0	35	288	10	15	0	13	361
Nitrogen Sols. 32%	273	338	266	146	280	0	0	1,303
Nitrogen Sols. 28%	0	214	1343	1613	31	772	0	3,973
Phosphorus Material	0	0	411	1102	666	0	0	2,179
Potash Material	350	179	3685	2317	2314	1613	202	10,660
Sulfur	47	37	401	111	11960	8	3	12,566
DAP	55	41	249	1051	813	1896	938	5,042
MAP	453	898	19644	5838	8671	7850	1594	44,948
APS	122	1091	1323	1540	330	0	191	4,598
10-34-0	0	81	587	298	26	28	0	1,020
OTHER BLENDS	0	3408	2648	4423	3074	32	1864	15,449
MICRONUTRIENTS	5	24	4	4	30	2	2712	2,781
GYPSUM/LIME	605	36	0	0	0	82	41	764
COMPOST	2714	7054	0	0	0	0	0	9,768
TOTALS	5,575	15,535	61,013	40,423	41,205	42,682	9,159	215,591

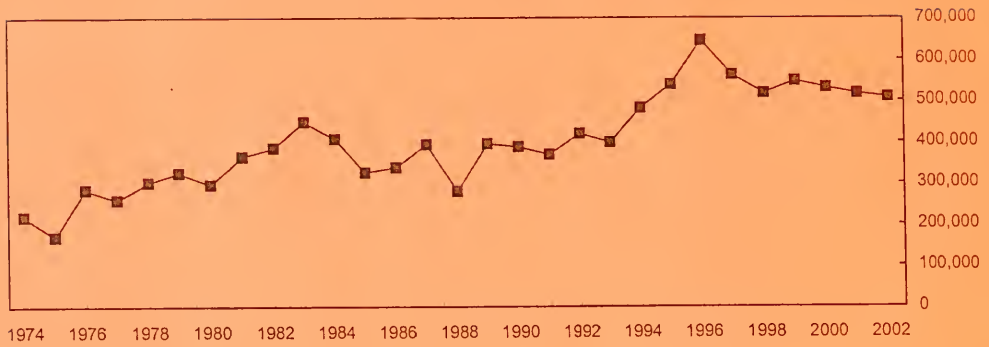
MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
FOR THE YEAR 2002

FERTILIZER	JAN.-JUN. 2002	JULY-DEC. 2002	YEARLY TOTALS
Anhydrous Ammonia	11,226	11,372	22,598
Ammonium Nitrate	21,494	4,927	26,422
Ammonium Sulfate	11,669	5,199	16,869
Urea	112,894	78,681	191,575
Ammonium Thiosulfate	854	361	1,215
Nitrogen Sols. 32%	1,891	1,303	3,194
Nitrogen Sols. 28%	6,551	3,973	10,524
Phosphorus Material	2,338	2,179	4,517
Potash Material	18,900	10,660	29,560
Sulfur	2,443	12,566	15,009
DAP	11,063	5,042	16,105
MAP	72,587	44,948	117,535
APS	10,920	4,598	15,518
10-34-0	1,511	1,020	2,531
OTHER BLENDS	1,580	15,449	17,029
MICRONUTRIENTS	352	2,781	3,133
GYPSUM/LIME	511	764	1,274
COMPOST	3,654	9,768	13,422
TOTALS	292,437	215,591	508,028

FRTNPK02

TOTAL NITROGEN	85,627	59,638	145,265
TOTAL P205	47,081	32,596	79,677
TOTAL K2O	11,340	6,396	17,736

Fertilizer Tonnage History



Year	Tonnage
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505
1988	279,616
1989	395,033
1990	387,583
1991	368,868
1992	418,982
1993	397,957
1994	481,300
1995	538,356
1996	645,344
1997	562,292
1998	517,388
1999	546,943
2000	531,414
2001	516,873
2002	508,028

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